PATENT ABSTRACTS

7/5/1 (Item 1 from file: 350) Links

Fulltext available through: Order File History

Derwent WPIX

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0011224696 & & Drawing available WPI Acc no: 2002-163967/200221

XRPX Acc No: N2002-125199

Transceiver malfunction detector, for base stations in a cellular communications network, that computes a service quality threshold value for each monitored transceiver Patent Assignee: TELEFONAKTIEBOLAGET ERICSSON L. M (TELF)

Inventor: CUFFARO A; DESGAGNE M

Patent Family (4 patents, 93 & countries)

		1 atom 1 a	mily (4 parents, 25 to co	unities .			
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001045276	A2	20010621	WO 2000SE2328	Α	20001124	200221	В
AU 200120333	Α	20010625	AU 200120333	Α	20001124	200221	E
EP 1238480	A2	20020911	EP 2000983601	Α	20001124	200267	E
			WO 2000SE2328	Α	20001124		
US 6587686	B1	20030701	US 1999459941	Α	19991214	200345	E

Priority Applications (no., kind, date): US 1999459941 A 19991214

		P	'atent	Detail	S					
Patent Number	Kind	Lan	Pgs	Draw	Filing N	otes				
WO 2001045276	A2	EN	26	5						
National Designated	AE AG AL AM A	TAU	JAZ	BA B	B BG BR BY BZ CA CH	CN CR CU CZ DE				
States,Original	DK DM DZ EE E	SFI	GB C	iD GE	GH GM HR HU ID IL IN	IS JP KE KG KP				
	KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ									
	PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA									
	ZW									
Regional Designated	AT BE CH CY D	E DK	EA:	ES FI I	R GB GH GM GR IE IT	KE LS LU MC MW				
States, Original	MZ NL OA PT S	D SE	SL S	Z TR T	TZ UG ZW					
AU 200120333	A	EN			Based on OPI patent	WO 2001045276				
EP 1238480	A2	EN			PCT Application	WO 2000SE2328				
					Based on OPI patent	WO 2001045276				
Regional Designated	AL AT BE CH C	Y DE	DK	ES FI I	R GB GR IE IT LI LT L	U LV MC MK NL PT				
States,Original	RO SE SI TR									

Alerting Abstract WO A2

NOVELTY - A transceiver malfunction detector (25) stores information related to the service performance of base station transceivers (19) in a cellular communications network (10). The detector computes a service quality threshold value proportional to the average performance of the monitored transceivers so that the acceptability of transceiver performance can be determined.

USE - For the base stations in a cellular communications network.

ADVANTAGE - Automatically takes a malfunctioning base station transceiver out of service. DESCRIPTION OF DRAWINGS - The figure shows a block diagram of a transceiver malfunction detector, for base stations in a cellular communications network.

- 10 Cellular communications network
- 19 Base station transceivers
- 25 Transceiver malfunction detector

7/5/2 (Item 2 from file: 350) Links

Fulltext available through: Order File History

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0009476450 & & Drawing available

WPI Acc no: 1999-417560/199935

WPI Acc no: 1999-41/560/19993

XRPX Acc No: N1999-311613

Intermittent network performance problem detecting method in telecommunication network management system

Patent Assignee: MCI COMMUNICATIONS CORP (MCIC-N)

Inventor: BENCHECK M; BRANTON R; BROWNMILLER C; DEMOSS M; LANDON S; TRAN M T

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5913036	A	19990615	US 1996670847	A	19960628	199935	В

Priority Applications (no., kind, date): US 1996670847 A 19960628

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 5913036	A	EN	21	12	

Alerting Abstract US A

NOVELTY - An existence of potential network problem is determined by indication of performance monitoring data received from a monitoring point. A problem handling process is initiated and maintained if monitoring point has reported multiple non-zero at a predefined time even when error activity for previous monitoring periods is detected and not reported.

DESCRIPTION - The problem handling process is cleared if no additional non-zero error activity is reported during specific time period. The performance monitoring data is analyzed in relation to monitoring data collected during previous monitoring periods. An INDEPENDENT CLAIM is also included for intermittent network performance problem detecting system.

USE - In telecommunication network management system.

ADVANTAGE - Allows service provider to perform process initiation for addressing potential problems in network performance, thereby minimizing the impact on customer's perception of the quality of provisioned service. Processing efficiency is improved by precluding initiation of multiple independent problem handling processes.

DESCRIPTION OF DRAWINGS - The figure shows a flowchart for intermittent network performance problem detecting method.

9/5/2 (Item 2 from file: 350) Links

Fulltext available through: Order File History

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0016003789 & & Drawing available

WPLAcc no: 2006-535418/200655

XRPX Acc No: N2006-428666

High-speed wireless data packet network for mobile terminal, generates and transmits network performance indicators to application server at time of data session initialization

Patent Assignee: NORTEL NETWORKS LTD (NELE)

Inventor: MACLEAN I: SUBRAMANIAM G

Patent Family (1 natents 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 7072961	B1	20060704	US 2001290744	P	20010514	200655	В
			US 200136084	TA.	20011231		7

Priority Applications (no., kind, date); US 2001290744 P 20010514; US 200136084 A 20011231

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	w Filing Notes		
US 7072961	B1	EN	8	4	Related to Provisional	US 2001290744	

Alerting Abstract US B1

NOVELTY - A gateway device provides an interface between a high speed wireless data packet network and an application server placed within a wireline data packet network. The gateway device generates and transmits performance indicators of the wireless network to the server such that an optimal quality of service (OoS) level of data transfer is determined by the server when a data session is initialized. DESCRIPTION - The gateway device is gateway general packet radio service (GPRS) support node (GGSN). The network performance indicators are QoS ratings, indication of transfer delays in network, indication of signal data unit error rates in network, indication of bit error ratios in network, indication of amount of jitter in network, indication of traffic congestion in network and indication of signal latency in the network. INDEPENDENT CLAIMS are also included for the following:

- 1. gateway general packet radio service (GPRS) support node; and
- 2. data transmission method of gateway general packet radio service support node in wireless data packet network

USE - For delivering data to mobile terminal such as global system for mobile communications (GSM). voice radio and data transceiver for use in universal mobile telecommunications system (UMTS). ADVANTAGE - The quality of service is adjusted by the server not only to match the service level agreement for the user of the mobile terminal but also to match the network conditions of the high speed wireless data packet network. The network resources are saved without any wastage by the server and the wireline data packet service provide a quality of service that is not deliverable to the wireless mobile terminal

DESCRIPTION OF DRAWINGS - The figure shows a functional block diagram of general packet radio service (GPRS) network providing network performance indicators to application server. 100 GPRS network

- 112 140 144 mobile terminals
- 152 application server
- 160 quality of service monitor
- 168 network performance indicator signal

9/5/11 (Item 11 from file: 350) Links

Fulltext available through: Order File History

Derwent WPIX

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0013431285 & & Drawing available

WPI Acc no: 2003-522128/200349

Related WPI Acc No: 2003-183525 XRPX Acc No: N2003-414224

Data unit serving method in asynchronous transfer mode network for real-time applications, involves transferring data units queued from different applications, from low level to high level buffer for serving.

Patent Assignee: CHEN G (CHEN-I)

Inventor: CHEN G

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind Date		Update	Туре
US 20030067932	A1	20030410	US 2001295601	P	20010604	200349	В
			US 200123281	A	20011213		

Priority Applications (no., kind, date): US 2001295601 P 20010604; US 200123281 A 20011213

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	v Filing Notes	
US 20030067932	A1	EN	16	5	Related to Provisional	US 2001295601

Alerting Abstract US A1

NOVELTY - The data units such as asynchronous transfer mode (ATM) cells are queued from different applications in respective high and low level buffers (12,14) which have higher and lower priority for transmission on the ATM network. The data units are transferred from the low level buffer to high level buffer from which the data units are served.

DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- 3. data units serving program; and
- 4. data units serving apparatus.

USE - For serving data units such as asynchronous transfer mode (ATM) cells in ATM network, broadband integrated service digital networks (B-ISDN) support services such as real-time applications such as audio and video interactive communications, telephone/video phone, high definition television (HDTV), multi-media conferencing medical diagnosis and real-time control applications.

ADVANTAGE - Enables providing data units with high quality of service (QoS) requirements for different applications.

DESCRIPTION OF DRAWINGS - The figure shows a block diagram of buffers for serving data units.

12 high level buffer

14 low level buffer

13/5/9 (Item 8 from file: 350) Links

Fulltext available through: Order File History

Derwent WPIX

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0012909822 & & Drawing available

WPI Acc no: 2002-364937/200240

XRPX Acc No: N2002-285217

Telecommunication network has network management device to interpret composite parameter to identify network fault and performance

Patent Assignee: BARTLETT I (BART-I); CHAMBERS D F (CHAM-I); CRICHTON P (CRIC-I);

MOTOROLA INC (MOTD: THOMAS H (THOM-D) Inventor: BARTLETT I; BARTLETT I M; CHAMBERS D F; CRICHTON P; THOMAS H

Patent Family (8 patents, 27 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
GB 2367721	Α	20020410	GB 200024631	Α	20001006	200240	В
EP 1195999	A2	20020410	EP 2001121550	Α	20010910	200240	E
US 20020103010	A1	20020801	US 2001968077	Α	20011001	200253	Е
CN 1356839	Α	20020703	CN 2001135326	Α	20010929	200265	Е
GB 2367721	В	20040303				200417	E
EP 1195999	B1	20050525	EP 2001121550	Α	20010910	200539	Е
DE 60110989	E	20050630	DE 60110989	Α	20010910	200545	Е
			EP 2001121550	Α	20010910		
DE 60110989	T2	20051124	DE 60110989	Α	20010910	200581	Е
			EP 2001121550	Α	20010910		

Priority Applications (no., kind, date): GB 200024631 A 20001006

			Pate	nt Deta	ils	
Patent Number	Kind	Lan	Pgs	Draw	Filing	Notes
GB 2367721	Α	EN	28	3		
EP 1195999	A2	EN				
Regional Designated	AL AT E	BE CH CY	DE I	OK ES	FI FR GB GR IE IT LI I	T LU LV MC MK NL
States, Original	PT RO S	E SI TR				
EP 1195999	B1	EN				
Regional Designated States,Original	AT BE C	TH CY DE	DK I	ES FI F	R GR IE IT LI LU MC I	NL PT SE TR
DE 60110989	Е	DE	П		Application	EP 2001121550
					Based on OPI patent	EP 1195999
DE 60110989	T2	DE	Г		Application	EP 2001121550
					Based on OPI patent	EP 1195999

Alerting Abstract GB A

NOVELTY - A correlating node correlates the data from multiple interconnected nodes in the network to generate a composite parameter. A network management device (48) interprets the composite parameter to identify a network fault and performance of the telecommunication network. DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- 5. Node for telecommunication network:
- 6. Telecommunication system managing method; and

- 7. computer program product for telecommunication system management.
- USE Telecommunication network such as broadband asynchronous transmission mode (ATM), network narrow band public switched telephone network (PSTN) and integrated service digital network (ISDN), internet, intranet, etc., for telecommunication systems such as internet, dual band radio frequency systems, combined global system for mobile communication/code division multiple access (GSM/CDMA) systems and for multimedia applications.
- ADVANTAGE Monitors reliability of the network without relying on locally defined and held self-test routines or centralized test procedures. Enables testing of physical links, service or content provision, quality of service (QOS) and other diverse parameters of network.

DESCRIPTION OF DRAWINGS - The figure shows an outline of the telecommunication network.
48 Network management device

19/5/6 (Item 6 from file: 350) <u>Links</u>
Fulltext available through: Order File History

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0013244832 & & Drawing available

WPI Acc no: 2003-330020/200331 Related WPI Acc No: 2003-001837

XRPX Acc No: N2003-264129

Call detail record generation method for circuit-switched telephone network, involves associating messages relating to different gateways based on unique identifiers of calls established through media sateway.

Patent Assignee: ARCHIBALD D M (ARCH-I); CARSON D J (CARS-I); MCDONALD S (MCDO-I); TOMBERLIN J (TOMB-I); AGILENT TECHNOLOGIES INC (AGIL-N)

Inventor: ARCHIBALD D M; CARSON D J; MCDONALD S; TOMBERLIN J

Patent Family (2 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Туре
US 20030009557	A1	20030109	US 2001834046	Α	20010412	200331	В
			US 2002222994	A	20020819		
US 7076040	B2	20060711	US 2002222994	A	20020819	200646	Е

Priority Applications (no., kind, date); US 2001834046 A 20010412; US 2002222994 A 20020819

Patent Details

Patent Number	umber Kind Lan Pgs Draw Filing Notes						
US 20030009557	A1	EN	12	5	C-I-P of application	US 2001834046	

Alerting Abstract US A1

NOVELTY - Command messages are associated with response messages in accordance with a message addressing and gateway transaction information. Command and response messages relating to a specific gateway are associated with ID information having names of media end points within the gateways. The messages relating to different gateways are associated with unique identifiers of calls established through the natieway.

DESCRIPTION - An INDEPENDENT CLAIM is included for call detail record generation apparatus.

USE - For generating call detail records for telephone call and other services performed through circuitswitched telecommunication network.

ADVANTAGE - Since the messages associated with one another are combined to produce a call detail record irrespective of the identifying information contained in different messages, the application programs easily monitors the quality of service for billing purpose.

DESCRIPTION OF DRAWINGS - The figure shows a flowchart explaining the call detail record generation process.

19/5/9 (Item 9 from file: 350) Links

Fulltext available through: Order File History

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0013012251 & & Drawing available

WPI Acc no: 2003-090534/200308

XRPX Acc No: N2003-071510

Quality of voice services analyzer system for telephone network, measures and analyzes quality of service for multiple calls made over network

Patent Assignee: AMINE G A (AMIN-I)

Inventor: AMINE G A

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020131604	A1	20020919	US 2000246816	P	20001108	200308	В
			US 20015485	Α	20011108		

Priority Applications (no., kind, date): US 2000246816 P 20001108; US 20015485 A 20011108

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20020131604	Λ1	EN	68	11	Related to Provisional	US 2000246816

Alerting Abstract US A1

NOVELTY - A high impedance measurement subsystem measures the quality of voice services passing through each node of a telephone network. A quality of service analysis subsystem analyzes the quality of service for multiple calls made over the network and a data store records the analysis results. DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- 8. Quality of voice services comparison system;
- 9. Communication protocol adherence analyzing system;
- 10. Voice service quality testing method;
- 11. Voice service quality monitoring method; and
- 12. Voice service quality measuring system.

USE - For packet-based voice communication systems such as telephone networks.

ADVANTÂGE - Enhances the quality, reliability and interoperability of the packet-based voice communication system, by analyzing the quality of their service.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the analyzer system.

19/5/14 (Item 14 from file: 350) Links

Fulltext available through: Order File History

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0011231406 & & Drawing available

WPI Acc no: 2002-170856/200222

Related WPI Acc No: 1999-458217; 2000-282810; 2000-490547; 2000-585979; 2000-671871; 2001-

023206; 2002-105000; 2004-830853

XRPX Acc No: N2002-129973

Quality of service monitoring system in computer networks, has bandwidth management tool connected to firewall server, which dynamically allocates bandwidth to connection request based on traffic class of request

Patent Assignee: NOVELL INC (NOVE-N)

Inventor: SAWHNEY S; VAID A

Patent Family (1 natents 1 & countries)

ratent rainty (r patents, r & contacts)											
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Туре				
US 6341309	B1	20020122	US 199747752	P	19970527	200222	В				
			US 1997998314	Α	19971224						

Priority Applications (no., kind, date): US 199747752 P 19970527; US 1997998314 A 19971224

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 6341309	B1	EN	14	7	Related to Provisional	US 199747752

Alerting Abstract US B1

NOVELTY - A firewall server connected to several computers of a wide area network, stores a firewall program. A bandwidth management tool connected to the firewall server, monitors and manages the incoming and outgoing information of the server and dynamically allocates the bandwidth to the connection request based on the traffic class of the connection request.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- 13. Bandwidth management tool installation method;
- 14. Computer readable medium storing bandwidth management tool installation program;
- 15. Electromagnetic signals propagated through computer network

USE - To monitor and allocate bandwidth in telecommunication network, computer networks such as internet, wide area network.

ADVANTAGE - Provides a single point or a single region to manage telecommunication traffic including directory serves and bandwidth management. The system is predominantly software based and is implemented into a pre-existing system by simple installation process. By dynamically allocating bandwidth based on traffic class of connection request, efficient implementation, good link utilization, guaranteed latency and localized control over all time intervals are enabled. DESCRIPTION OF DRAWINGS - The figure shows the flowchart of bandwidth management tool

installation process.

19/5/17 (Item 17 from file: 350) Links

Fulltext available through: Order File History

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0010883402 & & Drawing available WPI Acc no: 2001-503447/200156

XRPX Acc No: N2001-373341

Detecting service quality of telecommunication service in mobile radio telecommunications network by using SIM toolkit application to determine service quality data and transmit to network Patent Assignce: MANNESMANN AG (MANS); VODAFONE AG (VODA-N); VODAFONE HOLDING GMBH (VODA-N); WOLFPER GMBH (WOLF-N)

Inventor: DINSING T; KLEIER S; TIMPHUS F

Patent Family (8 patents, 93 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 10004847	A1	20010809	DE 10004847	A	20000202	200156	В
WO 2001058192	A1	20010809	WO 2001DE318	Α	20010123	200156	E
AU 200137239	Α	20010814	AU 200137239	Α	20010123	200173	E
EP 1264498	A1	20021211	EP 2001909527	Α	20010123	200301	E
			WO 2001DE318	Α	20010123		
JP 2003528492	W	20030924	JP 2001557316	Α	20010123	200365	E
			WO 2001DE318	A	20010123		
CN 1478360	Α	20040225	CN 2001804424	Α	20010123	200436	Е
AU 774777	B2	20040708	AU 200137239	A	20010123	200470	Е
CN 1275494	C	20060913	CN 2001804424	A	20010123	200706	E

Priority Applications (no., kind, date): DE 10004847 A 20000202

Dotont	Date

			Ŀ	atent L	ætans .						
Patent Number	Kind	Lan	Pgs	Draw	Filing Not	es					
DE 10004847	A1	DE	5	1							
WO 2001058192	A1	DE									
National Designated	AE AG AL A	M AT	`AU	AZ BA	BB BG BR BY BZ CA CH C	'N CR CU CZ DK					
States,Original					GH GM HR HU ID IL IN IS JE						
	LC LK LR LS	LTL	UL	V MA	MD MG MK MN MW MX M	Z NO NZ PL PT RO					
	RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW										
Regional Designated											
States, Original	MZ NL OA PT SD SE SL SZ TR TZ UG ZW										
AU 200137239	A	EN			Based on OPI patent	WO 2001058192					
EP 1264498	A1	DE			PCT Application	WO 2001DE318					
					Based on OPI patent	WO 2001058192					
	AL AT BE CI	HCY	DE I	OK ES	FI FR GB GR IE IT L1 LT LU	LV MC MK NL PT					
States,Original	RO SE SI TR										
JP 2003528492	W	JΑ	13		PCT Application	WO 2001DE318					
					Based on OPI patent	WO 2001058192					
AU 774777	B2	EN			Previously issued patent	AU 200137239					
					Based on OPI patent	WO 2001058192					

Alerting Abstract DE A1

NOVELTY - The service quality data (6,12) representing the quality of service are detected using a module

- (5) provided on the mobile subscriber identification card (3). The service quality data are transmitted from the mobile radio terminal (mobile telephone) (2) to the mobile radio telecommunication network. The module may be implemented as a SIM toolkit application (5). The data may be requested by the user of the mobile radio terminal.
- DESCRIPTION An INDEPENDENT CLAIM is included for a mobile radio subscriber identification card with a SIM toolkit application.
- USE E.g. for determining network non-accessibility, service non-accessibility, cut-off call ratio etc. in GSM or UMTS etc.
- ADVANTAGE Cheap and efficient determination of service quality, accurately representing the user's situation.

 DESCRIPTION OF DRAWINGS The drawing shows the determination and transmission of service quality data.

19/5/19 (Item 19 from file: 350) Links

Fulltext available through: Order File History

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0010273139 & & Drawing available

WPLAcc no: 2000-585979/200055

Related WPI Acc No: 1999-458217; 2000-282810; 2000-490547; 2000-671871; 2001-023206; 2002-

 $105000; 2002\hbox{-}170856; 2004\hbox{-}830853$

XRPX Acc No: N2000-433554

Quality of service monitoring system in wide area network, includes flow and queuing control modules for transferring protocol based on non-protocol based information, respectively

Patent Assignee: UKIAH SOFTWARE INC (UKIA-N)

Inventor: PANDIT A; PUTTA S R; RAKOSHITZ G; VAID A

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6078953	A	20000620	US 199747752	P	19970527	200055	В
		1	US 199767857	P	19971205		
			US 1997999044	Α	19971229		

Priority Applications (no., kind, date): US 199747752 P 19970527; US 199767857 P 19971205; US 199799044 A 19971229

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes		
US 6078953	Α	EN	20	9	Related to Provisional	US 199747752	
					Related to Provisional	US 199767857	

Alerting Abstract US A

NOVELTY - A traffic management tool is coupled to link connected to local area network, to receive Internet protocol (IP) packets which includes transmission control protocol (TCP) based on non-TCP based information. The tool comprises flow and queuing control modules for transferring TCP based on non-TCP based information, respectively.

DESCRIPTION - An INDEPENDENT CLAIM is also included for the method of managing information at gateway site.

USE - For monitoring and allocating bandwidth on telecommunication network at e.g. fire wall access point. For WAN or workstations such as Internet, LAN. For managing information at gate way site for improving quality of service to computer network.

ADVANTAGE - Provides a single point or single region to manage telecommunication traffic including directory services and bandwidth management. Since the system is software based, it can be implemented into pre-existing system by simple installation process. Provides more valued applications and users with reliable and fast service. Link efficiency improves due to overall congestion avoidance. Available bandwidth in a system is fairly shared between equally prioritized users. The tool presents a rule based measurement and real time monitoring capability for highly granular and time critical monitoring. The

monitoring technique can be applied to any protocol.

DESCRIPTION OF DRAWINGS - The figure shows the flow diagram illustrating the flow control and queuing control.

19/5/21 (Item 21 from file: 350) <u>Links</u>
Fulltext available through: Order File History

Derwent WPIX

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0009968404 & & Drawing available

WPI Acc no: 2000-270711/200023

XRPX Acc No: N2000-202781

Operation and maintenance control point e.g. for self engineering telecommunications network, has performance monitoring function which monitors performance of network elements and determines quality of service in network

Patent Assignce: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)

Inventor: GLITHO R; SVENSSON B

Patent Family (7 patents, 85 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type				
WO 2000011884	A1	20000302	WO 1999SE1346	A	19990806	200023	В				
AU 199957670	A	20000314	AU 199957670	A	19990806	200031	Е				
US 6233449	B1	20010515	US 1998138719	Α	19980824	200129	Е				
BR 199913166	A	20010515	BR 199913166	A	19990806	200130	Е				
			WO 1999SE1346	A	19990806						
MX 2001001918	A1	20010601	MX 20011918	Α	20010222	200235	Е				
AU 758719	В	20030327	AU 199957670	Α	19990806	200330	Е				
MX 227141	В	20050407	WO 1999SE1346	A	19990806	200571	Е				
			MX 20011918	Α	20010222						

Priority Applications (no., kind, date): US 1998138719 A 19980824

				Patent	Details					
Patent Number	Kind	Lan	Pgs	Draw	Filing No	es				
WO 2000011884	A1	EN	28	6						
National Designated	AE AL AM	AT A	U A2	BA B	B BG BR BY CA CH CN CR	CU CZ DE DK EE ES				
States, Original	FI GB GD G	E GH	GM	HR H	U ID IL IN IS JP KE KG KP K	R KZ LC LK LR LS				
	LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK									
	SL TJ TM TR TT UA UG UZ VN YU ZA ZW									
Regional Designated										
States, Original	NL OA PT SD SE SL SZ UG ZW									
AU 199957670	A	EN			Based on OPI patent	WO 2000011884				
BR 199913166	A	PΤ			PCT Application	WO 1999SE1346				
					Based on OPI patent	WO 2000011884				
AU 758719	В	EN			Previously issued patent	AU 9957670				
					Based on OPI patent	WO 2000011884				
MX 227141	В	ES			PCT Application	WO 1999SE1346				
					Based on OPI patent	WO 2000011884				

Alerting Abstract WO A1

NOVELTY - The operation and maintenance control point (OMCP) has a performance monitoring function which monitors performance of the network elements and determines quality of service (QoS) in the network. A trouble sniffer receives performance and QoS data from the performance monitoring function and detects faults within the network. An action proposal agent receives performance and QoS data from the performance monitoring function and fault data from the trouble sniffer and provides suggested correcting actions to the NMS.

DESCRIPTION - An INDEPENDENT CLAIM is included for a method of implementing a self engineering telecommunications network, a method of automatically changing cell sizes in order to shift traffic loads and eliminate performance and quality of service problems in network, a method of performing traffic load sharing between the cells, a method of configuring and testing a new hardware or software device, and a method of analyzing a reported fault from a hardware or software device in a network element.

USE - For self engineering telecommunications network. For cellular telecommunications network. ADVANTAGE - Reduces processing load on NMS and rather than reporting symptoms, provides NMS with suggested corrective actions to correct reported problems.

DESCRIPTION OF DRAWINGS - The figure shows a simplified block diagram illustrating the flow of information in a self-engineering telecommunications network in which the OMCP of the invention has been implemented.

19/5/22 (Item 22 from file: 350) Links

Fulltext available through: Order File History

Derwent WPIX

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0009514815 & & Drawing available

WPI Acc no: 1999-458217/199938

Related WPI Acc No: 2000-282810; 2000-490547; 2000-585979; 2000-671871; 2001-023206; 2002-

105000; 2002-170856; 2004-830853

XRPX Acc No: N1999-342765

Computer network traffic monitoring tool

Patent Assignce: NOVELL INC (NOVE-N); UKIAH SOFTWARE INC (UKIA-N)

Inventor: PANDIT A; PUTTA S; PUTTA S R; RAKOSHITZ G; VAID A

Patent Family (5 patents, 81 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1999034544	A1	19990708	WO 1998US27396	A	19981223	199938	В
AU 199923076	A	19990719	AU 199923076	A	19981223	199951	E
EP 1050128	A1	20001108	EP 1998966473	Α	19981223	200062	Е
			WO 1998US27396	A	19981223		
JP 2002500469	W	20020108	WO 1998US27396	A	19981223	200206	Е
			JP 2000527050	A	19981223		
US 6578077	B1	20030610	US 199747752	P	19970527	200340	Е
			US 199767857	P	19971205		
			US 1997999517	A	19971229		

Priority Applications (no., kind, date): US 199747752 P 19970527; US 199767857 P 19971205; US 1997999517 A 19971229

Patent Details

				Patent I	Details	
Patent Number	Kind	Lan	Pgs	Draw	Filing I	Notes
WO 1999034544	A1	EN	51	15		
National Designated	AL AM AT	AU A	Z B/	A BB B	G BR BY CA CH CN CU	CZ DE DK EE ES FI GB
States, Original	GD GE GH	GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU				
-	LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ					
	TM TR TT UA UG US UZ VN YU ZW					
Regional Designated	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW					
States,Original	NL OA PT SD SE SZ UG ZW					
AU 199923076	Α	EN			Based on OPI patent	WO 1999034544
EP 1050128	A1	EN			PCT Application	WO 1998US27396
					Based on OPI patent	WO 1999034544
Regional Designated	DE FR GB I	E				
States, Original						
JP 2002500469	W	JA_	63		PCT Application	WO 1998US27396
					Based on OPI patent	WO 1999034544
US 6578077	B1	EN			Related to Provisional	US 199747752
					Related to Provisional	US 199767857

Alerting Abstract WO Al

NOVELTY - Tool is a GUI comprising a display with one part comprising a bandwidth consumption graphical chart representing information flow, the other comprising text information describing the flow of information. The chart is also a plot of failure rates against time and delay rates against time output on a

computer monitor. The display is real-time and the chart is a graph, histogram, bar or pie chart. DESCRIPTION - There are INDEPENDENT CLAIMS for (1) a computer network system, (2) a network management method, (3) a computer system.

USE - Tool is for monitoring and allocating bandwidth on a telecommunication network at e.g. a firewall access point, WAN or the Internet.

ADVANTAGE - Tool improves WAN usage.

DESCRIPTION OF DRAWINGS - The drawing shows a simplified diagram of the system.

FULL-TEXT PATENTS

10/3K/6 (Item 6 from file: 348) <u>Links</u>
Fulltext available through: <u>Order File History</u>

EUROPEAN PATENTS

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01432911

High-level interface for OoS-based mobile multimedia applications

Schnittstelle auf hoher Ebene für dienstqualitätbasierte mobile Multimedia-Anwendungen Interface de haut niveau pour applications multimedia mobiles basees sur la qualite de service

Patent Assignee:

16. Sony Deutschland GmbH; (7231840) Kemperplatz 1; 10785 Berlin; (DE)

(Proprietor designated states: all)

Inventor:

- Mandato, Davide,c/o Sony Intern. (Europe) GmbH
 Adv. Tech. Center Stuttgart, Hedelfinger Str. 61; 70327 Stuttgart; (DE)
- Kovacs, Erno, Dr., c/o Sony Intern. (Europe) GmbH Adv. Tech. Center Stuttgart, Hedelfinger Str. 61; 70327 Stuttgart; (DE)
- Rohrle, Klaus,c/o Sony Intern. (Europe) GmbH
 Adv. Tech. Center Stuttgart, Hedelfinger Str. 61; 70327 Stuttgart; (DE)
- Schramm, Oliver,c/o Sony Intern. (Europe) GmbH
 Adv. Tech. Center Stuttgart, Hedelfinger Str. 61; 70327 Stuttgart; (DE)

Legal Representative:

21. Korber, Martin Hans et al (88321)

Mitscherlich & Partner Patentanwalte Sonnenstrasse 33; 80331 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1213895	A1	20020612	(Basic)
	EP	1213895	B1	20070905	
Application	EP	2000126975		20001208	

Extended Designated States:

AL: LT: LV: MK: RO: SI:

International Patent Class (V7): H04L-029/08

IPC	Level	Value	Position	Status	Version	Action	Source	Office
H04L-0029/08	Α	I	F	В	20060101	20010528	H	EP

Abstract Word Count: 108

NOTE: 1

NOTE: Figure number on first page: 1

Type		Pub. Date	Kind	Text	
	Publication: English				

Procedural: English Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200224	1639
SPEC A	(English)	200224	7580
CLAIMS B	(English)	200736	1433
CLAIMS B	(German)	200736	1348
CLAIMS B	(French)	200736	1917
SPEC B	(English)	200736	7342
Total Word Count (Document A) 9222		•	•
Total Word Count (Document B) 12040			
Total Word Count (All Documents) 21262			

Specification: ...the stream; stream1, that is build inner FSM, with respect to the user; user1 and application: application 1 and session: session1 and stream: stream1. For the sake of simplicity, only one transition isthe innermost FSM of the overall hierarchical FSM. * Specify a Drop 514 action at session level for the transition medToMaxSessTr, with respect to stream: stream1 * Specify a Create 513 action at session level for the transition maxToMedSessTr (not shown above), with respect to association: association1 * Finally, activate the overall FSM. Additional QoS Contexts, Associations, and Streams can be later specified and activated. This however would imply a... ...process. * At this point the middleware has collected the information necessary to * 1. selects the QoS Broker plug-ins required to process the semantic of the given QoS Contract Type * 2. negotiate a Adaptation Path with the local resource controllers, with all the involved parties, and with the network telecommunication systems * 3, create the ChCs as required * 4. retrieve and chain multimedia components as required to achieve the given goals * 5. activate monitors * 6. evaluate QoS changes events and react accordingly * Synchronization issues: assumed that another Stream 502 stream2 has been,...,can be synchronized within the context of the Association association 1 * Ad hoc disposal of any QoS Context, Association, or Stream, i.e. any not a priori known decision of any of Annunciation of any incoming request from a remote peer to establish communications will typically involve application-level actions or even user interactions (e.g. to specify whether to accept or not such request). This process is part of the negotiation process. To this extent, the Application 101 shall be able to catch any of such events generated by the middleware 103/105 through the API 102, Example: * To this extent, the Application 101 shall therefore be able to intercept annunciation events (inluding those indicating the request of...

10/3K/15 (Item 8 from file: 349) <u>Links</u>
Fulltext available through: <u>Order File History</u>
PCT FULLTEXT

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METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR MANAGING A SERVICE PROVIDED BY A NETWORK

PROCEDED SYSTEMS OF TRANSPERS OF PROCED AND PROPERTY OF THE PROP

PROCEDES, SYSTEMES ET PRODUITS DE PROGRAMME INFORMATIQUE POUR GERER UN SERVICE FOURNI PAR UN RESEAU

Patent Applicant/Patent Assignee:

 TRENDIUM INC; 13450 W. Sunrise Blvd., Suite 200, Sunrise, FL 33323 US; US(Residence); US(Nationality)

Legal Representative:

23. MYERS BIGEL SIBLEY & SAJOVEC(agent) P.O. Box 37428, Raleigh, NC 27526; US;

	Country	Number	Kind	Date
Patent	WO	200215481	A2-A3	20020221
Application	WO	2001US25893		20010817
Priorities	US	2000225892		20000817

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR: IE: IT: L II: MC: NL: PT: SE: TR:

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English Filing Language: English Fulltext word count: 24224

Detailed Description:

...PROVIDED BY A NETWORK RELATED APPLICATION

This application claims the benefit of U. S. Provisional Application No.

60/225,892, filed August 17, 2000, the disclosure of which is hereby incorporated....been under pressure to improve efficiency and cut costs and yet still maintain a high quality level of service for their customers. In this competitive environment, one area 15 in which telecommunications providers.....dege is in the support systems that are used to operate, manage, and maintain the telecommunications networks. These support systems may be called operational support systems (OSS).

Broadly stated, an OSS for a telecommunications network may include software services that are used to support the operations of a telecommunications network. Three support areas that may be addressed by a telecommunication OSS are 1) provisioning and.....bill compilation, and customer care. Finally, service quality management may include such functions as service level agreements (SLAs), quality of service delivery, fault management, performance monitoring, error analysis, and security.

In general, OSS software solutions have been developed to address a....as one of the three support areas cited above at the network and/or service level. There exists a need, however, for improved service management systems and methods that may be...

10/3K/16 (Item 9 from file: 349) Links

Fulltext available through: Order File History

PCT FULLTEXT

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00808381

DYNAMIC UPGRADE OF QUALITY OF SERVICE IN A PACKET SWITCHED NETWORK AMELIORATION DYNAMIQUE DE LA QUALITE DU SERVICE DANS UN RESEAU A COMMUTATION PAR PAQUETS

Patent Applicant/Patent Assignee:

 TELEFONAKTIEBOLAGET LM ERICSSON (publ); S-126 25 Stockholm SE; SE(Residence); SE(Nationality)

Legal Representative:

NORIN Klas(agent)

Ericsson Radio Systems AB, Patent Unit Radio Access, S-164 80 Stockholm; SE;

	Country	Number	Kind	Date
Patent	WO	200141376	A2-A3	20010607
Application	WO	2000SE2353		20001128
Priorities	US	99452911		19991201

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;

GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR: NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW:

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English Filing Language: English Fulltext word count: 7417

Detailed Description:

...the packet switched core network and the subscriber accepts a lower quality of service, the application that the subscriber wants to run might perform poorly. For example, the lower quality ofPerfearbly, the available quality of service is the same as the initially requested quality of service. As a result, the system is able 10 to automatically upgrade or downgrade the quality of service offered to the user in accordance with the initial request.

In accordance with one embodiment of the invention, the network notifies the user station of the assignment of the alternative quality of service and, subsequently, of the availability of the potentially more attractive quality of service. The user is then 15 able to accept or decline any assignment of an alternative quality of service and any modifications of the ongoing quality of service.

In accordance with another embodiment of the invention, the packet-switched telecommunications system comprises a radio network for communicating data packet signals with the user station and a service or the core network bearer service cannot provide the requested quality of service, the system subsequently monitors congestion (i.e., after the packet session is established) in the networks to upgrade or...

10/3K/18 (Item 11 from file: 349) \underline{Links}

Fulltext available through: Order File History

PCT FULLTEXT

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00806382

METHOD FOR AFFORDING A MARKET SPACE INTERFACE BETWEEN A PLURALITY OF MANUFACTURERS AND SERVICE PROVIDERS AND INSTALLATION MANAGEMENT VIA A MARKET SPACE INTERFACE

A PROCEDE DE MISE A DISPOSITION D'UNE INTERFACE D'ESPACE DE MARCHE ENTRE UNE PLURALITE DE FARRICANTS ET DES FOUNTSSEURS DE SERVICES ET GESTION D'UNE INSTALLATION VIA UNE INTERFACE D'ESPACE DE MARCHE

Patent Applicant/Patent Assignee:

 ACCENTURE LLP; 1661 Page Mill Road, Palo Alto, CA 94304 US; US(Residence); US(Nationality)

Legal Representative:

27. HICKMAN Paul L(et al)(agent)

Oppenheimer Wolff & Donnelly LLP, 1400 Page Mill Road, Palo Alto, CA 94304; US;

	Country	Number	Kind	Date
Patent	WO	200139028	A2	20010531
Application	WO	2000US32308		20001122
Priorities	US	99444773		19991122
	US	99444798		19991122

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW:

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English Filing Language: English Fulltext word count: 170977

Detailed Description:

...and for QoS violations, notifying Service Quality Management 1304.

The aim is to provide effective monitoring. Monitoring and reporting must.

provide SP management and customers meaningful and timely performance information across the... ...specific SLA commitments and standard service commitments.

Figure 18 is a flowchart illustrating a Customer Quality of Service Management Process in accordance with a preferred embodiment. First, in step 1800, a hybrid network event is received which may include customer inquiries, required reports, completion notification, quality of service terms, service level agreement terms, service problem data, quality data, network performance data, and/or network configuration data. Next, in step 1802, the system determines customer reports to be generated and, in step 1804, generates the customer reports accordingly.....with a preferred embodiment of the present invention. The Service Quality Management Process 1304 supports monitoring service or product quality on a service class basis in order to determine.

Whether service levels are being met consistently
Whether there... ...problems with the service or product
Whether the sale and use of the service is tracking to forecasts.

This process also encompasses taking appropriate action to keep service levels within agreed...

10/3K/20 (Item 13 from file: 349) Links
Fulltext available through: Order File History
PCT FULL TEXT

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00507924

METHIOD AND APPARATUS FOR THE CREATION OF PERSONALIZED SUPERVISORY AND CONTROL DATA ACQUISITION SYSTEMS FOR THE MANAGEMENT AND INTEGRATION OF REAL-TIME ENTERPRISE-WIDE APPLICATIONS AND SYSTEMS PROCEDE ET APPAREIL DE CREATION DE SYSTEMES D'ACQUISITION ET DE CONTROLE DES DONNIES PERSONNALISES POUR LA GESTION ET L'INTEGRATION D'APPLICATIONS ET DE SYSTEMES EN TEMPS REEL AU INVICAUI DE L'ENTREPRISE.

Patent Applicant/Patent Assignee:

28. EUTECH CYBERNETICS PTE LTD;

;

	Country	Number	Kind	Date
Patent	WO	9939276	A1	19990805
Application	WO	99US962		19990115
Priorities	US	987438		19980115

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English Filing Language: Fulltext word count: 22576

Detailed Description:

...AND

CONTROL DATA ACQUISITION SYSTEMS FOR THE MANAGEMENT AND INTEGRATION OF REAL-TIME ENTERPRISE-WIDE APPLICATIONS AND SYSTEMS

INVENTORS

Bandu Wewalaarachchi, Aruna Sanjaya Gunasiri,

Priyantha Gunasekera, and Haritharan Gunasingham

BACKGROUND

FIELD.....mccessary where there is a need to guarantee real-time response to achieve a required quality of service of various underlying devices, communications networks, operating systems, middleware components and application components. Thus, real-time systems are widely applied to diverse applications domains such as manufacturing, facilities management, power systems management, financial analysis systems, and telecommunications.

By definition, a real-time system provides a result in response to an event in a time scale that is adequate to meet the quality of service and performance needs of the application. Certain situations can be time critical in which case they require a hard real-time system, in other words, a hardware based system providing for hardware level integration of the various levels of control, monitoring, and communication systems. For a hard real-time system, the validity of the returned results.....time systems arises from the need to respond to concurrent events occurring within a single application (or within multiple applications) at the same time.

Also, a real-time system must provide some way of managing configuration management, fault management, static and dynamic scheduling, and fault tolerance. However, some applications may be hard real-time applications and others soft real-time applications. This results in increased complexity in managing and correlating data and information generated by the...

10/3K/21 (Item 14 from file: 349) Links

Fulltext available through: Order File History

PCT FULLTEXT

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00456834

A SYSTEM, METHOD AND ARTICLE OF MANUFACTURE FOR SWITCHED TELEPHONY COMMUNICATION

SYSTEME PROCEDE ET ARTICLE CONCU POUR LES COMMUNICATIONS TELEPHONIQUES PAR RESEAU COMMUTE.

Patent Applicant/Patent Assignee:

29. MCI WORLDCOM INC;

	Country	Number	Kind	Date
Patent	WO	9847298	A2	19981022
Application	WO	98US7927		19980415
Priorities	US	97835789		19970415
	US	97834320		19970415

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English Filing Language: Fulltext word count: 156638

Detailed Description:

- ...gradual reduction of capacity in the face of multiple network failures.
- 6. Interoperable: The physical network model allows networks with different characteristics to interoperate with different network elements.
- 7. Secure: The physical network model... ...transmission of information. It also has capabilities to ensure secure access to network elements.
- 8. Monitoring: The physical network model provides well-defined interfaces and access methods for monitoring the traffic on the network.

Security (see above) is integrated to prevent unauthorized access to... ... 9. Partitionable: The physical network model is (logically) partitionable to form separate administrative domains.

- 10. Quality of Service: The physical network model provides QOS provisions such as wide range of qualities, adequate QOS for legacy applications, congestion management and user-selectable QOS.
- I 1. Universal Access: The physical network model does...

12/3K/2 (Item 2 from file: 348) Links

Fulltext available through: Order File History

EUROPEAN PATENTS

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01434681 System at

System and method for verifying usage and quality of interconnection services for a communication network

System und Verfahren zur Prufung der Benutzung und Qualitat von Verbindungsdiensten fur ein Kommunikationsnetzwerk

Systeme et methode pour verifier l'usage et la qualite de services d'interconnection pour un reseau de communication

Patent Assignee:

30. Inet Technologies, Inc.; (3099791)

1500 North Greenville Avenue; Richardson, TX 75081; (US)

(Applicant designated States: all)

Inventor:

31. Brehm, Grant M.

4708 Sunflower Drive; McKinney, Texas 75050; (US)

32. Patterson, Tim K.

400 Newport Drive; Allen, Texas 75013; (US)

33. Keough, Kevin

7727 Shady Oak Drive; Aubrey, Texas 76227; (US)

Legal Representative:

34. Jackson, Richard Eric et al (62281)

Carpmaels & Ransford, 43 Bloomsbury Square; London WC1A 2RA; (GB)

	Country	Number	Kind	Date	
Patent	EP	1215924	A2	20020619	(Basic)
	EP	1215924	A3	20050316	
Application	EP	2001310505		20011217	
Priorities	US	740047		20001218	

Designated States:

AT: BE; CH: CY; DE; DK; ES; FI; FR; GB;

GR; IE; IT; LI; LU; MC; NL; PT; SE; TR;

Extended Designated States:

AL; LT; LV; MK; RO; SI;

International Patent Class (V7): H04Q-003/00; H04M-015/26Abstract Word Count: 147

NOTE: 3

NOTE: Figure number on first page: 3

Туре	Pub. Date	Kind		Text
Publication: English				
Procedural: English				
Application: English				
A	vailable Text	Language	Undate	Word Count

CLAIMS A	(English)	200225	1078
SPEC A	(English)	200225	8500
Total Word Count (Document A) 9578			*
Total Word Count (Document B) 0			
Total Word Count (All Documents) 9578			

Specification: ...collects messages on a per customer and/or a per service provider (carrier) basis. The tracked messages may be part of one of a number of message protocols, such as Integrated Services Digital Network - User Part (ISUP), Telephone User Part (TUP), Network User Part (TUP), Transaction Capabilities Application Part. ...Advanced Intelligent Network (AIN), or Integrated Network Application Part (INAP) calls or transactions.

Communications network monitoring equipment which may be used in conjunction with the present invention is disclosed in U.S. Patent No. 5,592,530, entitled TELEPHONE SWITCH DUAL MONITORS; U.S. Patent No. 6,028,914, entitled "SYSTEM AND METHOD FOR MONITORING PERFORMANCE STATISTICS IN A COMMUNICATIONS NETWORK' issued February 22, 2000; and in pending patent applications assigned serial numbers 09/092,256, entitled "SYSTEM AND METHOD FOR GENERATING QUALITY OF SETVICE STATISTICS FOR AN INTERNATIONAL COMMUNICATIONS NETWORK" filed June 5, 1908: 09/092,428, entitled "SYSTEM.

12/3K/8 (Item 8 from file: 348) Links

Fulltext available through: Order File History

EUROPEAN PATENTS

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00953335

LOAD SHARING GROUP OF SERVICE CONTROL POINTS CONNECTED TO A MEDIATION POINT FOR TRAFFIC MANAGEMENT CONTROL

LASTVERTEILUNGSGRUPPE VON AN EINER VERMITTLUNGSSTELLE ANGESCHLOSSENEN DIENSTSTEUERPUNKTEN FUR VERKEHRSVERWALTUNGSSTEUERUNG

GROUPE DE REPARTITION DE CHARGES DE POINTS DE COMMANDE DE SERVICES RELIES A UN POINT DE MEDIATION A DES FINS DE GESTION DU TRAFIC

Patent Assignee:

35. Nortel Networks Limited: (3029040)

World Trade Center of Montreal, 380 St. Antoine Street West, 8th floor; Montreal, Quebec H2Y 3Y4; (CA)

(Proprietor designated states: all)

Inventor:

36. MOHARRAM, Omayama, El-Sayed

1 Spruce Drive, R.R. 1; Carleton Place, Ontario K7C 3P1; (CA)

Legal Representative:

37. Anderson, Angela et al (78507)

Nortel Networks IP Law Group, Harlow Laboratories, London Road; Harlow, Essex CM17 9NA; (GB)

	Country	Number	Kind	Date	
Patent	EP	872124	A1	19981021	(Basic)
	EP	872124	B1	20030312	
	WO	98019467		19980507	
	EP	97943690		19971008	
	WO	97CA737		19971008	
Priorities	US	29169	P	19961025	
	US	815260		19970312	

Designated States:

DE: FR: GB:

International Patent Class (V7): H04Q-003/00; H04Q-003/66

NOTE: No A-document published by EPO

Type	Pub. Date	Kind	Text
Publication: English			
Procedural: English			
Application: English			

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200311	1089
CLAIMS B	(German)	20031I	1007
CLAIMS B	(French)	200311	1232
SPEC B	(English)	20031I	4388
Total Word Count (Document A) 0			
Total Word Count (Document B) 7716			
Total Word Count (All Documents) 7716			

Specification: ...the various NEs and to ensure service reliability and network integrity.

The NTM consists of monitoring and control functions aimed at the detection of abnormal load conditions and excessive traffic congestion, activation, de-activation and monitoring of overload controls. The IN NTM requirements in (1) GR-1298-CORE, Advanced Intelligent Network.....L. COM 11-R 104E, May 1995; and (3) ITU-T Recommendation E.412, Telephone Network and ISDN Quality of Service, Network Management and traffic Engineering, Network Management Controls, emphasize the need for automatic call-associated ...

12/3K/13 (Item 5 from file: 349) <u>Links</u> Fulltext available through: Order File History

PCT FULLTEXT

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00842455

METHOD AND APPARATUS FOR MONITORING ACCESS TO A COMMUNICATIONS CIRCUIT

PROCEDE ET APPAREIL D'APPLICATION PROGRESSIVE D'UN ACCES DE SURVEILLANCE SANS A-COUPS A UN CIRCUIT DE COMMUNICATIONS, AU MOYEN D'UN SUPPORT DE TRANSMISSION GUIDE

Patent Applicant/Patent Assignee:

 SPIRENT COMMUNICATIONS; 15200 Omega Drive, Rockville, MD 20850-3240 US; US(Residence); US(Nationality)
 For all designated states except: US)

(For all designated states except: US)

 BAILEY George R; 15200 Omega Drive, Rockville, MD 20850-3240 US; US(Residence); US(Nationality) (Designated only for: US)

Patent Applicant/Inventor:

40. BAILEY George R

15200 Omega Drive, Rockville, MD 20850-3240; US; US(Residence); US(Nationality); (Designated only for: US)

Legal Representative:

41. POULIQUEN Corinne M(et al)(agent)

Katten Muchin Zavis, Customer No. 27160, 525 West Monroe Street, Suite 1600, Chicago, IL 60661-3693; US;

	Country	Number	Kind	Date
Patent	WO	200176204	A2-A3	20011011
Application	WO	2001US10378		20010402
Priorities	US	2000193359		20000331
	US	2000200390		20000428

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR: NE; SN: TD: TG:

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English Filing Language: English Fulltext word count: 9235

Detailed Description:

...SDSL circuits. A design response to this difficulty is to raise the impedance of the monitor circuit to such a value, that abruptly connecting it to the subject SDSL circuit, causes.....per thousand change in circuit impedance. However, practical limitations imposed by parasitic capacitance of the monitor circuit and connecting means to the subject twisted pair carrying DSL, amplifier and thermal noise.....increased cost, are quickly reached.

Thus, there have been difficulties experienced during field trials in monitor access application while attempting to gain monitor access to certain types of DSL circuits, such as SDSL, without disruption. ISDN (Integrated Services Digital Network) modems also rely primarily on echo cancellation to function, and are thus, similarly sensitive to... ...accuracy impairments, an in some cases, cessation of information flow.

However, in order to ensure quality of service, it is often necessary to unobtrusively monitor the progress of communications over the transmission media by connection to the media itself. Unless the monitor facility is permanently in place, the introduction or removal of the monitor, to some degree...

10/5/1 (Item 1 from file: 2) Links

INSPEC

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06323299 INSPEC Abstract Number: B9608-6230F-005

Title: ATM switching node system technology for effective maintainability

Author Miyaho, N.; Itoh, A.; Koyama, K.

Author Affiliation: NTT Network Service Syst. Labs., Tokyo, Japan

Conference Title: GLOBECOM '95, Communications for Global Harmony, IEEE Global

Telecommunications Conference. Technical Program Conference Record (Cat. No.95CH35756) Part vol.3 p. 1719-23 vol.3

Publisher: IEEE, New York, NY, USA

Publication Date: 1995 Country of Publication: USA 3 vol. xlvii+2317 pp.

ISBN: 0 7803 2509 5 Material Identity Number: XX96-00592

U.S. Copyright Clearance Center Code: 0 7803 2509 5/95/\$4.00

Conference Title: Proceedings of GLOBECOM '95

Conference Sponsor: IEEE; IEEE Commun. Soc.; GLOBECOM; Telecommun. Authority of Singapore; Singapore Telecom; NUS; NTU

Conference Date: 13-17 Nov. 1995 Conference Location: Singapore

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: Asynchronous transfer mode (ATM) technology has been widely studied and will be used to implement the B-ISDN. Although ATM switching nodes are being deployed, much work is still needed to resolve problems with their maintainability. This paper discusses the current research and experience concerning the development of ATM nodes from the viewpoint of maintainability and clarifies the concepts of hardware maintainability in introducing efficient connection test methods using an OAM cell-handling mechanism, an ATM traffic-monitoring mechanism with QoS control, and a test cell generation/checking mechanism for in-service connection testing. To increase maintainability, and avavare failure

detection/indication methods, a layered management scheme upon detection of a line failure, and automatic line switching to a stand-by system are proposed. (7 Refs)

Subfile: B

Descriptors: asynchronous transfer mode; B-ISDN; electronic switching systems; maintenance engineering; telecommunication control; telecommunication equipment testing; telecommunication network management; telecommunication network reliability; telecommunication transmission lines

Identifiers: ATM switching node; system technology; asynchronous transfer mode; research; hardware maintainability; connection test methods; OAM cell-handling mechanism; ATM traffic-monitoring mechanism; QoS control; test cell generation/checking mechanism; in-service connection testing; hardware failure detection/indication; layered management scheme; line failure detection; automatic line switching; stand-by system: B-ISDN

Class Codes: B6230F (Integrated switching and transmission systems); B6210C (Network management); B6210M (ISDN)

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10/5/3 (Item 3 from file: 2) Links

INSPEC

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05800295 INSPEC Abstract Number: B9412-6210C-007

Title: QoS management and performance monitoring in ATM networks

Author Jae-il Jung; Gravey, A.

Author Affiliation: CNET, Lannion, France

Part vol.2 p. 708-12 vol.2

Publisher: IEEE, New York, NY, USA

Publication Date: 1993 Country of Publication: USA 4 vol. (xxxix+2021+xvi+148) pp.

ISBN: 0 7803 0917 0

U.S. Copyright Clearance Center Code: 0 7803 0917 0/93/\$03.00

Conference Title: Proceedings of GLOBECOM '93. IEEE Global Telecommunications Conference Conference Sponsor: IEEE Houston Section: IEEE Galveston Bay Area Section: IEEE Commun. Soc

Conference Date: 29 Nov.-2 Dec. 1993 Conference Location: Houston, TX, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Theoretical (T)

Abstract: The purpose of this paper is to study quality of service (QoS) management and performance monitoring issues in BrISDN. A QoS framework is proposed in order to satisfy the user's service quality requirements. The basic idea of this QoS framework is that the user's QoS requirement should be represented in terms of objectives set to QoS parameters which are in turn translated into asynchronous transfer mode (ATM) network performance (POP) parameters objectives: then, meeting NP parameters objectives ensures that the user's QoS requirements are fulfilled. Performance monitoring mechanisms based on operation and maintenance (OAM) cells flows in the ATM layer and estimation methods, which are both part of a QoS framework, are reviewed. We focus in particular on the definition and estimation of NP parameters in the case of non-conforming cells transmitted on an ATM connection. Finally, a QoS management secantific for the ATM layer is proposed. (8 Ref.)

Subfile: B

Descriptors: asynchronous transfer mode; B-ISDN; estimation theory; quality control;

telecommunication network management; telecommunication services

Identifiers: QoS management; QoS performance monitoring; ATM networks; B- ISDN; QoS parameters; asynchronous transfer mode; network performance parameters; operation and maintenance; OAM; ATM layer; estimation methods

Class Codes: B6210C (Network management); B0170L (Inspection and quality control); B6210M (ISDN); B6150C (Switching theory)

10/5/4 (Item 4 from file: 2) Links Fulltext available through: STIC Full Text Retrieval Options (c) 2008 Institution of Electrical Engineers. All rights reserved. 05783051 INSPEC Abstract Number: B9411-6210M-021, C9411-7410F-045

Title: Performance management issues in ATM networks

Author Puiolle, G.; Gaiti, D.

Author Affiliation: Lab, PRiSM-CNRS, Univ. of Versailles, Versailles, France Journal: IFIP Transactions C (Communication Systems) vol.C-23 p. 247-65

Publication Date: 1994 Country of Publication: Netherlands CODEN: ITCCE5 ISSN: 0926-549X

Conference Title: IFIP TC6 International Conference on Information Networks and Data Communication Conference Date: 18-21 April 1994 Conference Location: Funchal, Portugal

Language: English Document Type: Conference Paper (PA): Journal Paper (JP) Treatment: Practical (P): Theoretical (T)

Abstract: OAM (operation and maintenance) principles have been defined in the recommendation I.610. The scope of this recommendation is to identify the minimum set of functions required to operate and maintain the physical layer and the ATM layer aspects of the B-ISDN. OAM functions are provided through bi-directional information flows. However, this recommendation is useful for communicating the parameters but not really for management operations. Within OAM scopes, a major goal is to take in charge quality of service and performance monitoring. The goal of this paper is to introduce performance monitoring aspects and to focus on traffic and flow control that is a major aspect. To deal with this performance management, a generic intelligent and integrated model for network management is described. The main idea was to reduce the complexity of the management process by introducing intelligent concepts as agents and blackboards. This architecture allows an intelligent management of broadband networks through organizing the resources into domains and introducing a knowledge based system to manage each domain. As an example of the use of this intelligent management architecture, we introduce a new congestion control scheme. This scheme uses cell loss priority bit, explicit forward congestion indicator and explicit backward congestion Indicator. The intelligent management will take in charge the control of the different parameters due to the complexity to operate efficiently this control. We show that this new control scheme allows performance to be increased by an order of magnitude. (26 Refs)

Descriptors: asynchronous transfer mode; B-ISDN; computerised monitoring; intelligent networks; knowledge based systems; telecommunication network management; telecommunication traffic; telecommunications computer control

Identifiers: ATM networks; performance management issues; OAM principles; operation and maintenance; physical layer; ATM layer; B-ISDN; OAM functions; bi-directional information flows; quality of service; performance monitoring; traffic flow control; generic intelligent and integrated model; network management; congestion control scheme; broadband networks; knowledge based system; intelligent management architecture; cell loss priority bit; explicit forward congestion indicator; explicit backward congestion indicator

Class Codes: B6210M (ISDN); B6210C (Network management); B6210O (Intelligent networks); C7410F (Communications); C6170 (Expert systems); C5620 (Computer networks and techniques); C3370 (Communication techniques)

10/5/5 (Item 5 from file: 2) Links

Fulltext available through: STIC Full Text Retrieval Options

INSPEC

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05751744 INSPEC Abstract Number: B9410-6210M-016, C9410-5620-022

Title: An approach to identifying QoS problems

Author Mourelatou, K.E.; Bouloutas, A.T.; Anagnostou, M.E.

Author Affiliation: Dept. of Electr. & Comput. Eng., Nat. Tech. Univ. of Athens, Greece

Journal: Computer Communications vol.17, no.8 p. 563-70

Publication Date: Aug. 1994 Country of Publication: UK

CODEN: COCOD7 ISSN: 0140-3664

U.S. Copyright Clearance Center Code: 0140-3664/94/08/0563-08\$10.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Broadband ISDN will be the vehicle of a great variety of services. The quality of the services provided should be constantly monitored, evaluated and kept withis specifications, despite the fact that the information available to QoS monitoring agents is usually limited. In this paper, we examine how performance problems can be resolved by combining the information available to agents that monitor end-toe-end QoS performance. We show that a central management system is capable of identifying the cause of performance degradation quickly by correlating the information of many QoS monitoring centres. (2

Subfile: B C

Descriptors: B-ISDN; performance evaluation; telecommunication network management

Identifiers: broadband ISDN; central management system

Class Codes: B6210M (ISDN); B6210C (Network management); C5620 (Computer networks and techniques); C5670 (Network performance)

10/5/6 (Item 6 from file: 2) Links

Fulltext available through: STIC Full Text Retrieval Options

INSPEC

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05640119 INSPEC Abstract Number: B9405-6210M-044, C9405-5620-048

Title: Performance design and monitoring techniques for multimedia services service quality from the customer viewpoint

Author Taka, M.; Murakami, H.

Journal: NTT Review vol.6, no.1 p. 56-9

Publication Date: Jan. 1994 Country of Publication: Japan

CODEN: NTTREK ISSN: 0915-2334

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Customer requirements for broadband-ISDN (B-ISDN) will be more advanced and diversified, so performance design and monitoring techniques for the ATM network used for B-ISDN services will be essential. This article presents the concept and methodologies of performance design and monitoring to improve the quality of service perceived by customers. (3 Refs)

Subfile: B C

Descriptors: asynchronous transfer mode; B-ISDN; multimedia systems; telecommunication network management

Identifiers: monitoring techniques; multimedia services; broadband-ISDN; B- ISDN; performance design; ATM network; B-ISDN services; methodologies of performance design; quality of service

Class Codes: B6210M (ISDN); B6150C (Switching theory); B6210C (Network management); C5620

(Computer networks and techniques)

10/5/7 (Item 7 from file: 2) Links

INSPEC

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03727599 INSPEC Abstract Number: B86054706

Title: Ouality of service in ISDN networks

Author Soderberg, A.; Widl, W.

Author Affiliation: L.M. Ericsson, Stockholm, Sweden

Conference Title: GLOBECOM '85. IEEE Global Telecommunications Conference. Conference Record.

Communication Technology to Provide New Services (Cat. No.85CH2190-7) p. 214-16 vol.1 Publisher: IEEE , New York, NY, USA

Publication Date: 1985 Country of Publication: USA 3 vol. xx+1529 pp.

U.S. Copyright Clearance Center Code: CH2190-7/85/0000-0214\$01.00

Conference Sponsor: IEEE

Conference Date: 2-5 Dec. 1985 Conference Location: New Orleans, LA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The ISDN network allows telecommunication services with different bandwidth and quality requirements. Quality-of- service monitoring of the connections carrying the services will be required when traffic is in progress. The most useful parameter to check the quality of a connection is error-rate performance. Bit error ratios are easily measured between subscriber terminals, if redundancy in the information flow of the service can be used for error control routines. The connection through the network of an administration, consisting of subscriber loops, circuits and paths through the digital switching networks, offers no practical possibility of end-to-end control. However, each part of the network involved in the establishment of the connection can be monitored and evaluated separately. With the aid of operation and maintenance systems, the performance values from the various network parts can be collected continuously and evaluated to obtain the quality measure of the monitored connection. (2 Refs) Subfile: B

Descriptors: ISDN

Identifiers: ISDN networks; telecommunication services; bandwidth; quality; error-rate; error control; subscriber loops; digital switching networks

Class Codes: B6210M (ISDN); B6230F (Integrated switching and transmission systems)

10/5/8 (Item 1 from file: 8) Links

Fulltext available through: STIC Full Text Retrieval Options

Ei Compendex(R)

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06995244 E.I. No: EIP94121501810

Title: Performance design and monitoring techniques for multimedia services

Author: Taka, Masahiro; Murakami, Hidevo

Corporate Source: NTT

Source: NTT Review v 6 n 1 Jan 1994. p 56-59

Publication Year: 1994

CODEN: NTTREK ISSN: 0915-2334

Language: English

Document Type: JA; (Journal Article) Treatment: G; (General Review); T; (Theoretical)

Journal Announcement: 9501W3

Abstract: Customer requirements for broadband-ISDN (B-ISDN) will be more advanced and diversified, so performance design and monitoring techniques for the ATM network used for B-ISDN services will be essential. This article presents the concept and methodologies of performance design and monitoring to improve the quality of service perceived by customers. (Author abstract) 3 Refs.

Descriptors: *Telecommunication networks; Switching networks; Performance; Design; Quality

assurance; Data communication systems

Identifiers: Performance design; Monitoring techniques; Multimedia services; Customer requirements; Broadband ISDN; Service quality

Classification Codes:

913.3 (Quality Assurance & Control); 722.3 (Data Communication, Equipment & Techniques) 716 (Radar, Radio & TV Electronic Equipment); 718 (Telephone & Line Communications); 913 (Production Planning & Control); 722 (Computer Hardware)

71 (ELECTRONICS & COMMUNICATIONS); 91 (ENGINEERING MANAGEMENT); 72 (COMPUTERS & DATA PROCESSING)

10/5/9 (Item 2 from file: 8) Links

Ei Compendex(R)

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06904149 E.I. No: EIP94071349340

Title: OoS management and performance monitoring in ATM networks

Author: Jung, Jae-il: Gravey, Annie

Corporate Source: France Telecom, Lannion, Fr

Conference Title: Proceedings of the IEEE Global Telecommunications Conference. Part 2 (of 4)

Conference Location: Houston, TX, USA Conference Date: 19931129-19931202

Sponsor: IEEE

E.I. Conference No.: 20155

Source: IEEE Global Telecommunications Conference v 2 1993, Publ by IEEE, IEEE Service Center. Piscataway, NJ, USA,93CH3250-8, p 708-712

Publication Year: 1993

CODEN: CRIEET ISBN: 0-7803-0917-0

analysis; Systems analysis; Quality assurance

Language: English

Document Type: CA; (Conference Article) Treatment: G; (General Review); T; (Theoretical)

Journal Announcement: 9409W2 Abstract: The purpose of this paper is to study Quality of Service (QoS) management and performance monitoring issues in B-ISDN. A QoS framework is proposed in order to satisfy the user's service quality requirements. The basic idea of this OoS framework is that the user's OoS requirement should be represented in terms of objectives set to OoS parameters which are in turn translated into Asynchronous Transfer Mode (ATM) Network Performance (NP) parameters objectives; then, meeting NP parameters objectives ensures that the user's OoS requirements are fulfilled. Performance monitoring mechanisms based on Operation and Maintenance (OAM) cells flows in the ATM layer and estimation methods, which are both part of a QoS framework, are reviewed. We focus in particular on the definition and estimation of

NP parameters in the case of non-conforming cells transmitted on an ATM connection, Finally, a OoS management scenario for the ATM layer is proposed. (Author abstract) 8 Refs. Descriptors: *Voice/data communication systems; Telecommunication services; Telecommunication networks; Information management; Performance; Operations research; Parameter estimation; Failure

Identifiers: Quality of service; Asynchronous transfer mode; Network performance parameters; Operation and maintenance cells

Classification Codes:

722.3 (Data Communication, Equipment & Techniques); 716.1 (Information & Communication Theory); 903.1 (Information Sources & Analysis); 912.3 (Operations Research); 731.1 (Control Systems); 921.6 (Numerical Methods)

722 (Computer Hardware); 716 (Radar, Radio & TV Electronic Equipment); 903 (Information Science); 912 (Industrial Engineering & Management); 731 (Automatic Control Principles); 921 (Applied

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATIONS); 90 (GENERAL ENGINEERING): 91 (ENGINEERING MANAGEMENT): 73 (CONTROL ENGINEERING); 92 (ENGINEERING MATHEMATICS)

10/5/10 (Item 1 from file: 95) Links

Fulltext available through: STIC Full Text Retrieval Options

TEME-Technology & Management

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01125150 197073906212

Quality-of-service architecture: Monitoring and control of multimedia communications

(Architektur fuer die Dienstguete: Monitoring und Steuerung der Multimedia-Kommunikation)

Hutchison, D; Mauthe, A; Yeadon, N

Dept. of Comput., Lancaster Univ., UK

Electronics and Communication Engineering Journal, v9, n3, pp100-106, 1997

Document type: journal article Language: English

Record type: Abstract

ISSN: 0954-0695

Abstract:

For distributed multimedia applications the provision of system-wide quality of service (QoS) is essential. The quality-of-service architecture (QoS-A) developed at Lancaster University offers a framework to specify and implement the required performance properties of multimedia applications over integratedservice networks in a heterogeneous environment. The work addresses the problem of lower-level QoS as well as QoS support for multipeer multimedia applications operating in an open communication system. QoS filters have been developed to deal with the problems of heterogeneity in group communication environments. New challenges are also encountered in emerging mobile networks and user mobility; and recent developments in the Internet community lighlight the need for appropriate QoS support mechanisms for multimedia applications. The paper describes how the QoS-A research at Lancaster University provides a flexible framework for the monitoring and control of multimedia communications across the broad range of computing systems and networks.

Descriptors: OPEN SYSTEMS; INTEGRATED SERVICES DIGITAL NETWORKS;
COMMUNICATION SERVICES; SYSTEM ARCHIFECTURE; IMPLEMENTATION; COMPUTER
NETWORKS; MULTIMEDIA COMMUNICATION
Identifiers: MOBILE COMMUNICATION; QUALITY OF SERVICE ARCHITECTURE;
MULTIMEDIA COMMUNICATIONS; DISTRIBUTED MULTIMEDIA APPLICATIONS; SYSTEM
WIDE QUALITY OF SERVICE; INTEGRATED SERVICE NETWORKS; HETEROGENEOUS
ENVIRONMENT; LOWER LEVEL QOS; MULTIPEER MULTIMEDIA APPLICATIONS; OPEN
COMMUNICATION SYSTEM; GROUP COMMUNICATION ENVIRONMENTS; MOBILE
NETWORKS; USER MOBILITY; DIENSTGUETE; MULTIMEDIA MEDIATION SOBLE
NETWORKS; USER MOBILITY; DIENSTGUETE; MULTIMEDIA MEDIATION SOBLE
NETWORKS; USER MOBILITY; DIENSTGUETE; MULTIMEDIA MEDIATION SOBLE
NETWORKS; USER MOBILITY; DIENSTGUETE; MULTIMEDIA MEDIATION SOBRED DIENSTBUETE

MULTIMEDIA SUSER MOBILITY; DIENSTGUETE; MULTIMEDIA SOMPHIATION SOBRED

NETWORKS; USER MOBILITY; DIENSTGUETE; MULTIMEDIA SOBRED

NETWORKS; USER MOBILITY DIENSTGUETE; MULTIMEDIA SOBRED

NETWORKS; USER MOBILITY DIENSTGUETE; MULTIM

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00792110 E94074122062

An information model for the QOS monitoring of an ATM switch: from analysis to implementation

 $(\hbox{ Ein Informations modell fuer die QOS-Ueberwachung einer ATM-Vermittlungsstelle: von der Analyse zur Implementierung)}$

Arsenis, S; Simoni, N; Znaty, S

Telecom Paris, F

Integrated Broadband Communication Networks and Services, Proc. of the IFIP TC6/ICCC Int. Conf., Copenhagen, DK, Apr 20-23, 1993, 1994

Document type: Conference paper Language: English

Record type: Abstract

ISBN: 0-444-81584-8

Abstract:

The information model is the conceptual support of every application, including network supervision and management. To obtain a unified view of the network resources, considering the complexity and heterogeneity of networks, it is important to base the management on a generic and powerful model. This paper presents a generic information model of network elements applied to the administration of an ATM switch. This hierarchical and modular model follows the guidelines of the different network management standards. Moreover, the authors have used an object oriented methodology. Based on the model, the ATM switch model has been implemented using an object-oriented regramming language.

Descriptors: DATA NETWORK ADMINISTRATION; SUPERVISORY PROGRAMS; INFORMATION TRANSMISSION; IMPLEMENTATION; MODEL STUDY; NETWORK ANALYSIS; B ISDN; BROADBAND TRANSMISSION; SYSTEM PARAMETERS; COMMUNICATION TRAFFIC; BEHAVIOUR-PERFORMANCE; OBJECT ORIENTED PROGRAMMING; EXCHANGE PLANTS; TRANSMISSION QUALITY; ASYNCHRONOUS TRANSFER MODE Identifiers: Breitband-ISDN; Informationsmodell

10/5/12 (Item I from file: 99) Links Fulltext available through: STIC Full Text Retrieval Options Wilson Appl. Sci & Tech Abs (c) 2008 The HW Wilson Co. All rights reserved. 2359417 H.W. Wilson Record Number: BAST01069194

QoS provisioning and tracking fluid policies in input queueing switches

Tabatabace, Vahid ; Georgiadis, Leonidas; Tassiulas, Leandros IEEE/ACM Transactions on Networking v. 9 no5 (Oct. 2001) p. 605-17 Document Type: Feature Article ISSN: 1063-6692 Language: English Record Status: New record

Descriptors: Scheduling algorithms; Integrated services digital networks;

10/5/13 (Item 1 from file: 144) <u>Links</u>
Fulltext available through: <u>STIC Full Text Retrieval Options</u>
Pascal

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14387902 PASCAL No : 00-0041685

Modeling and interoperability Test case generation of a real-time OoS monitoring protocol

CHINA B M: KIM S II: KANG S W: PARK C H

ETRI, Korea, Republic of; Department of Telematics Engineering, Pukyung National University, Pusan, Korea, Republic of; Korea Telecom R&D Group. Korea, Republic of

Journal: ETRI journal, 1999

. 21 (4) 52-64

ISSN: 1225-6463 Availability: INIST-26179;

354000080987670060

No. of Refs.: 23 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: Korea, Republic of

Language: English

OoS monitoring is a kind of real-time systems which allows each level of the system to track the ongoing QoS levels achieved by the lower network layers. For these systems, real-time communication between corresponding transport protocol objects is essential for their correct behavior. When two or more entities are employed to perform a certain task as in the case of communication protocols, the capability to do so is called interoperability and considered as the essential aspect of correctness of communication systems. This paper describes a formal approach on modeling and interoperability test case generation of a real-time OoS monitoring protocol. For this, we specify the behavior of flow monitoring of transport layer QoS protocol, i.e., METS protocol, which is proposed to address QoS from an end-to-end's point of view, based on OoS architecture model which includes ATM network in lower layers. We use a real-time Input/Output Finite State Machine to model the behavior of real-time flow monitoring over time. From the modeled real-time I/OFSM, we generate interoperability test cases to check the correctness of METS protocol's flow monitoring behaviors for two end systems. A new approach to efficient interoperability testing is described and the method of interoperability test cases generation is shown with the example of METS protocol's flow monitoring. The current TTCN is not appropriate for testing real-time and multimedia systems. Because test events in TTCN are for message-based system and not for stream-based systems, the real-time in TTCN can only be approximated.

for stream-based systems, the real-time in TTCN can only be approximated. This paper also proposes the notation of real-time Abstract Test Suite by means of real-time extension of TTCN. This approach gives the advantages that only a few syntactical changes are necessary, and TTCN and real-time TTCN are compatible. This formal approach on interoperability testing can be applied to the real-time protocols related to IMT-2000, B-ISDN and real-time systems. English Descriptors: Telecommunication network; Computer

English Descriptors: Telecommunication network; Computer network; Real time system; Service quality; Transmission protocol; Multimedia; Modeling; Finite state machine; Formal specification; Automatic test generation French Descriptors: Reseau telecommunication; Reseau ordinateur; Systeme temps reel; Qualite service; Protocole transmission; Multimedia; Modelisation; Machine etat fini; Specification formelle; Generation automatique test; Interoperabilite

Classification Codes: 001D04B03A

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13/5/5 (Item 3 from file: 8) Links

Fulltext available through: STIC Full Text Retrieval Options

Ei Compendex(R)

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08545430 E.I. No: EIP00045155205

Title: Programmable agents for flexible QoS management in IP networks

Author: De Meer, Hermann: La Corte, Aurelio; Puliafito, Antonio; Tomarchio, Orazio

Corporate Source: Columbia Univ, New York, NY, USA

Source: IEEE Journal on Selected Areas in Communications v 18 n 2 2000. p 256-267

Publication Year: 2000

CODEN: ISACEM ISSN: 0733-8716

Language: English

Document Type: JA; (Journal Article) Treatment: G; (General Review)

Journal Announcement: 0006W3

Abstract: Network programmability seems to be a promising solution to network management and quality of service (QoS) control. Software mobile-agents technology is boosting the evolution toward application-level control of network functionalities. Code may be deployed in the network dynamically and on demand for the benefit of applications or application classes. Agents support a dynamic distribution of control and management functions across networks, thus increasing flexibility and efficiency. We propose to use mobile-agent technology to overcome some of the problems inherent in current Internet technology. We focus our attention to QoS monitoring, being locally significant in network subdomains, and realize a QoS management strategy in response to variations of user, customer of application requirements, and of the network state. We describe our experience and the results obtained from our testbed, where software agents are instantiated, executed, migrated, and suspended in order to implement flexible QoS management in IP networks. (Author abstract) 31 Refs.

Descriptors: *Internet; Network protocols; Telecommunication services; Artificial intelligence;

Computer software

Identifiers: Mobile-agent technology

Classification Codes:

723.4 (Artificial Intelligence)

723 (Computer Software); 716 (Radar, Radio & TV Electronic Equipment)

72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATIONS)

13/5/6 (Item 1 from file: 144) <u>Links</u>
Fulltext available through: <u>STIC Full Text Retrieval Options</u>
Pascal

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15200932 PASCAL No.: 01-0366418

An approach for QoS scheduling on the application level for wireless networks

Networking: Colmar, 9-13 July 2001

HOANG Dang-Hai; RESCHKE Dietrich

LORENZ Pascal, ed
Technical University of Ilmenau, 98693 Ilmenau, Germany
ICN 2001: international conference on networking, 1 (Colmar FRA)

2001-07-09

Journal: Lecture notes in computer science.

2001, 2093 vol 1, 599-609

ISBN: 3-540-42302-8 ISSN: 0302-9743 Availability: INIST-16343: 354000092409620590

No. of Refs.: 9 ref.

Document Type: P (Serial); C (Conference Proceedings) ; A (Analytic) Country of Publication: Germany

Language: English

In this paper, we propose an architecture for Quality of Service (QoS) control with a proxy server for multimedia applications in heterogeneous communication environments of wired and wireless networks. The concept is based on a traffic scheduling mechanism on the application level for supporting various mobile user traffic streams. The proxy server is located in the base station and is responsible for user profile management and QoS adjustment. Via an application user interface, the user can click on a quality button to send an user feedback to express the actual required QoS. The concept is furthermore characterized by the gathering of queue lengths of packet flows and the calculating of the loss probability for OoS monitoring in the proxy server.

English Descriptors: Queue length; Multimedia; Cache memory; Service quality; Telecommunication network; Wireless telecommunication; Quality control; Communication network; Radio communication; User interface; Monitoring; Surveillance; Scheduling

French Descriptors: Longueur file; Multimedia; Antememoire; Qualite service; Reseau telecommunication; Telecommunication sans fil; Controle qualite; Reseau communication; Radiocommunication; Interface utilisateur; Monitorage; Surveillance; Ordonnancement

Classification Codes: 001D04B03

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